Ana Ros Garca

List of Publications by Year in Descending Order

30 papers	206 citations	8 h-index	13 g-index
33 ext. papers	269 ext. citations	1.7 avg, IF	1.92 L-index

#	Paper	IF	Citations
30	Proton range verification with MACACO II Compton camera enhanced by a neural network for event selection. *Scientific Reports*, **2021**, 11, 9325	4.9	2
29	Performance evaluation of MACACO II Compton camera. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2021**, 1014, 165702	1.2	2
28	Image reconstruction for a multi-layer Compton telescope: an analytical model for three interaction events. *Physics in Medicine and Biology*, **2020**, 65, 145005	3.8	2
27	MACACO II test-beam with high energy photons. *Physics in Medicine and Biology*, **2020**, 65, 245027	3.8	3
26	A spectral reconstruction algorithm for two-plane Compton cameras. *Physics in Medicine and Biology*, **2020**, 65, 025011	3.8	3
25	Evaluation of LFS continuous scintillation crystals for PET. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2019**, 936, 39-40	1.2	
24	Study of sensitivity and resolution for full ring PET prototypes based on continuous crystals and analytical modeling of the light distribution. *Physics in Medicine and Biology*, **2019**, 64, 035015	3.8	2
23	Performance improvement tests of MACACO: A Compton telescope based on continuous crystals and SiPMs. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2018**, 912, 48-52	1.2	10
22	TORCH: A Large-Area Detector for High Resolution Time-of-flight. *Springer Proceedings in Physics*, **2018**, 257-262	0.2	
21	Latest results from the TORCH R&D Project. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2018**, 912, 53-56	1.2	1
20	Testbeam studies of a TORCH prototype detector. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2018**, 908, 256-268	1.2	9
19	The TORCH detector R&D: Status and perspectives. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2017**, 876, 156-159	1.2	8
18	Performance simulation of BaBar DIRC bar boxes in TORCH. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2017**, 876, 202-205	1.2	
17	Test-beam and laboratory characterisation of the TORCH prototype detector. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2017**, 845, 452-458	1.2	
16	The TORCH time-of-flight detector. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2016**, 824, 106-110	1.2	2
15	Evaluation of a Modular PET System Architecture with Synchronization over Data Links. *IEEE Transactions on Nuclear Science*, **2014**, 61, 88-98	1.7	2
14	Retroreflector arrays for better light collection efficiency of -ray imaging detectors with continuous scintillation crystals without DOI misestimation. *Journal of Instrumentation*, **2014**, 9, P04009-P04009	1	3

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13	Simulation Study of Resistor Networks Applied to an Array of 256 SiPMs. *IEEE Transactions on Nuclear Science*, **2013**, 60, 592-598	1.7	7
12	Evaluation of a timing integrated circuit architecture for continuous crystal and SiPM based PET systems. *Journal of Instrumentation*, **2013**, 8, C03017-C03017	1	3
11	Design of the PETMR system for head imaging of the DREAM Project. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2013**, 702, 94-97	1.2	5
10	Programmable integrated front-end for SiPM/PMT PET detectors with continuous scintillating crystal. *Journal of Instrumentation*, **2012**, 7, C12021-C12021	1	2
9	Expandable programmable integrated front-end for scintillator based photodetectors **2012**,		4
8	Depth of interaction detection for γ-ray imaging. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2009**, 600, 624-634	1.2	28
7	Maximum likelihood positioning for gamma-ray imaging detectors with depth of interaction measurement. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2009**, 604, 359-362	1.2	17
6	Impact of the scattering coefficient of scintillation crystals (LYSO and LSO) on depth of interaction resolution **2008**,		3
5	. *IEEE Transactions on Nuclear Science*, **2008**, 55, 1344-1351	1.7	36
4	Scanner calibration of a small animal PET camera based on continuous LSO crystals and flat panel PSPMTs. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2007**, 571, 26-29	1.2	34
3	DOI measurement with monolithic scintillation crystals: A primary performance evaluation **2007**,		12
2	Impact of crystal quality, geometry and surface finish for 3D impact position measurements in gamma ray detection systems **2007**,		2
1	Design and Calibration of a Small Animal Pet Scanner Based on Continuous LYSO Crystals and PSPMTs **2006**,		5